

Case Study

GEO SPATIAL DATA MANAGEMENT



BUSINESS REQUIREMENTS

This client was a government agency who needed a Natural Disaster management system which makes optimal use of Geo- Spatial data to ensure fast recovery of day-to-day life and effective coordination between government agencies in case of a disaster and needed a mechanism to inform the public.



OUR SOLUTIONS

Provided complete solution with two parts:

Cloud

- A closed & public web system
- Map based operations
- Location/Zone based searching and monitoring capabilities
- Registration of various figures/statistics
- On the fly Data Acquisition and updates
- Web portal hosted in Google App Engine.
- REST APIs to consume from mobile devices
- Social Media integration to notify the public about the disaster and associated actions.



Tablet application

- Real-time intelligent network handling
- Custom Map Framework for recording detour information
- Multi-process disaster perspective handling for multiple patrol officers reporting same disaster
- APIs to retrieve real-time data

Industry	Government & GeoSpatial Data management
End users	1500 Government officials
Team size	7 people
Duration	8 months

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TOOLS & TECHNOLOGIES

- Google Map v2 for Android, Rest API, WKT for map geometry
- Java, Spring, Hibernate, SQLite, Google App engine, Google Maps for Business v1.0, Google Authentication utilities, Google Cloud Storage



BENEFITS

Multipurpose mobile terminal (tablet) capable of collecting disaster information enabled quick and effective disaster response.